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Vibration-Based Machines Wear Monitoring and Prediction

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Message from the Guest Editors

Dear Colleagues,

The application of vibration-based machines for wear monitoring and prediction is crucial in the accurate operation of machines, ensuring their optimum operational properties, safety, and integrity. In this respect, an increase in the utilization of vibration-based methods for the monitoring and prediction of wear in rotating machines has been observed in recent years. This evolution has been positively influenced by the following factors: advances in measurement techniques and the devices employed in vibration engineering, and the development of mathematical tools for signal processing and conditioning.

We are pleased to invite you to contribute to this Special Issue, which aims to collect interdisciplinary contributions on vibration-based machines for wear monitoring and prediction. It also aims to address the monitoring of wear in machines and the task of damage prediction in relation to numerical simulation and theoretical studies; this is in addition to practical solutions that are applicable to vibration-generating devices and rotating machines, the structural elements of heavy machines, vehicles, and so on.

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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